

Gansner 1999-0730

IN THE CLAIMS:

1. (Currently Amended) A real-time large-scale visualization system comprising:  
a visualization interface;  
a plurality of processing tools;  
means for accessing a plurality of data files that had been converted to a uniform in  
a self-describing format; and  
means ~~for~~ that enables streaming the data to and through one or more of said  
processing tools to create data results for updating one or more objects, which one or more  
objects ~~that~~ may be displayed by the visualization interface.
2. (Original) The invention of claim 1 wherein the visualization interface provides  
linked views of the data results.
3. (Original) The invention of claim 2 wherein the visualization interface is capable  
of presenting a statistical two-dimensional view, a pixel-oriented two-dimensional view, and a  
dynamic three-dimensional detailed view.
4. (Original) The invention of claim 1 wherein the visualization interface can  
access the data results as the processing tools are working on the data.
5. (Original) The invention of claim 1 wherein the visualization interface enables  
selection of a portion of the data results such that data corresponding to the portion  
selected may be accessed and processed in real-time to create second data results that are  
displayed on the visualization interface.
6. (Original) The invention of claim 1 wherein the processing tools enables  
creation of new processing expressions that are compiled and dynamically linked to the  
processing tools.

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7. (Original) The invention of claim 1 wherein the data is accessed using Direct IO.

8. (Currently Amended) A method of visualizing large-scale data in real-time comprising:

accessing a plurality of data files that had been converted to a uniform in a self-describing format;

streaming the data to and through one or more processing tools to create data results for updating one or more objects, which one or more objects are adapted for display;

displaying the data results said one or more objects on a visualization interface.

9. (Original) The invention of claim 1 wherein the visualization interface provides linked views of the data results.

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10. (Original) The invention of claim 2 wherein the visualization interface is capable of presenting a statistical two-dimensional view, a pixel-oriented two-dimensional view, and a dynamic three-dimensional detailed view.

11. (Original) The invention of claim 1 wherein the visualization interface can access the data results as the processing tools are working on the data.

12. (Original) The invention of claim 1 wherein the visualization interface enables selection of a portion of the data results such that data corresponding to the portion selected may be accessed and processed in real-time to create second data results that are displayed on the visualization interface.

13. (Original) The invention of claim 1 wherein the processing tools enables creation of new processing expressions that are compiled and dynamically linked to the processing tools.

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14. (Original) The invention of claim 1 wherein the data is accessed using Direct  
IO.